

[0065] The clinical quantification of the erythema visualized in the various skin reactions is documented in Tables 1 and 2.

TABLE 1

ACD REACTIONS

SUBJEC	SKIN REACTIO	IL-4	IL-8	IL-9	IL-13	iNOS	IFN γ
#1	0	ND	ND	+	ND	+	ND
#2	2+	+	+	NT	NT	NT	NT
#3	2+	+	+	+	+	+	+
#4	2+	+	+	*	+	*	+
#5	2+	+	+	+	+	+	+

ND = not detected

* gel not readable

NT = not tested

2+ = moderate erythema (red)

TABLE 2

ICD REACTIONS

SUBJEC	SKIN REACTIO	IL-4	IL-8	IL-9	IL-13	iNOS	IFN γ
#1	0	ND	ND	+	ND	+	ND
#2	2+	+	+	NT	NT	NT	NT
#3	1+	ND	+	+	+	+	ND
#4	1+ (low)	ND	ND	+	ND	ND	ND
#5	3+	*	+	*	*	*	*

ND = not detected

* gel not readable

NT = not tested

1+ = mild erythema (pinkish)

2+ = moderate erythema (red)

3+ = strong erythema (beet red)

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EXAMPLE 3

[0066] To further examine the relationship between the cytokines and the degree of inflammation in subject numbers 3-5, the IL-4, IL-8 and IL-13 RNA levels were normalized to the corresponding housekeeping gene levels (Table 3). Among the three subjects analyzed, a correlation exists between the RNA levels and the severity of the reactions. Table 2 shows that the samples from the strongest skin reactions were also the ones that demonstrated the largest relative amount of IL-8 in the ACD reaction. For example, subject #4 with a 2+ reaction at the ACD site and only a slight (low +) reaction at the ICD site showed an approximate two fold difference in the IL-8/GAPDH ratios when comparing the ICD and ACD reactions using the RPA method described above. In addition, one would predict an ACD reaction if, on the gel, there is a band for IL-4 and a value for IL-4/GAPDH of about 0.001 or higher. Also, an ACD reaction can be confirmed where there is an IL-13 band with an IL-13/GAPDH value of about 0.13 or higher (Table 3).

TABLE 3
TYPE OF REACTION

Subject		ICD	ACD
	IL-4/GAPDH	NC	NC
3	IL-8/GAPDH	0.3495	0.8867
	iNOS/GAPDH	0.2202	0.2652
	IL-13/GAPDH	0.070	0.251
	IL-4/GAPDH	0	0.01559
4	IL-8/GAPDH	0.2879	0.61080
	iNOS/GAPDH	0.07107	0.2661
	IL-13/GAPDH	0.117	0.134
	IL-4/GAPDH	0	0.07255
5	IL-8/GAPDH	0.2541	1.3023
	iNOS/GAPDH	0.05315	0.1951
	IL-13/GAPDH	0.055	0.158

NC = not calculated

[0067] A number of embodiments of the present invention have been described. Nevertheless, it will be understood that various modifications may be made without departing from the spirit and scope of the invention. Accordingly, other embodiments are within the scope of the following claims.

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